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## ☐ 1. 2/34/1 (Item 1 from file: 351)

011593907

WPI ACC No: 1998-011035/ 199802

Polyamide moulding material for e.g., food, cosmetic or  
chemical packaging or motor vehicle fuel tanks - contains metal oxide or  
hydrated oxide nanodispersion filler

Patent Assignee: BAYER AG (FARB ); INST NEUE MATERIALIEN GEMEINNUETZIGE  
(NEUE-N)

Inventor: GITTINGER A; IDEL K; JOACHIMI D; NASS R; NONNINGER R; SCHMIDT H;  
ZABY G

Number of Countries: 007 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 810259	A1	19971203	EP 97108006	A	19970516	199802 B
DE 19621308	A1	19971204	DE 1021308	A	19960528	199803

Priority Applications (No Type Date): DE 1021308 A 19960528

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 810259	A1	G	6	C08K-003/22	

Designated States (Regional): BE DE ES FR GB IT NL

DE 19621308 A1 5 C08L-077/00

Abstract (Basic): EP 810259 A

Thermoplastic moulding material (M) comprises (A) polyamide and (B) nano-disperse filler chosen from (quasi-)metal (hydrated) oxides. Also claimed are (i) moulding materials prepared from (M), (ii) single- or multi-layer films or hollow articles made from (M), (iii) packaging made from these films or articles, (iv) the preparation of (M) by incorporating (B) during the polymerisation of (A) and (v) the use of (M) for making moulded products; single- or multi-layer films or hollow articles.

USE - The films and hollow articles are used as packaging for food (eg. meat (products), sausage, cheese or drinks), cosmetics (eg. sun protection cream) or chemicals (eg. pesticides). The hollow articles can also be pipes or tanks for eg. motor car fuel or oil.

ADVANTAGE - Oxygen barrier properties of polyamide are improved without an adverse effect on transparency, reflection or toughness.

Dwg.0/0

Derwent Class: A23; A92; E37; P73

International Patent Class (Main): C08K-003/22; C08L-077/00

International Patent Class (Additional): B32B-027/24; C08J-005/00;

C08J-005/18; C08K-003/20; C08K-003/30; C08K-003/36

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## ☐ 2.

2/34/2 (Item 2 from file: 345)

13950570

Basic Patent (No,Kind,Date): EP 810259 A1 19971203

## PATENT FAMILY:

GERMANY (DE)

Patent (No,Kind,Date): DE 19621308 A1 19971204

POLYAMIDFORMMASSEN ENTHALTEND NANODISPERSE FUELLSTOFFE, SOWIE FOLIEN  
ODER HOHLKOERPER ENTHALTEND EINE ENTSPRECHENDE POLYAMIDSCHICHT  
(German)

Patent Assignee: BAYER AG (DE); INST NEUE MAT GEMEIN GMBH (DE)

Author (Inventor): GITTINGER ANDREAS DR (DE); JOACHIMI DETLEV DR  
(DE); IDEL KARSTEN DR (DE); ZABY GOTTFRIED DR (DE); NONNINGER RALPH  
DR (DE); NAS RUEDIGER DR (DE); SCHMIDT HELMUT PROF DR (DE)

Priority (No,Kind,Date): DE 19621308 A 19960528

Applic (No,Kind,Date): DE 19621308 A 19960528

IPC: \* C08L-077/00; C08K-003/20; C08K-003/30; C08K-003/36; C08J-005/00  
; B32B-027/24; B65D-065/38

CA Abstract No: \* 128(05)048994R

Derwent WPI Acc No: \* C 98-011035

Language of Document: German

EUROPEAN PATENT OFFICE (EP)

Patent (No,Kind,Date): EP 810259 A1 19971203

POLYAMID MOULDING COMPOSITIONS CONTAINING NANODISPERSE FILLERS AND  
FILMS OR HOLLOW ARTICLES CONTAINING SUCH POLYAMID LAYER (English;  
French; German)

Patent Assignee: BAYER AG (DE); INST NEUE MATERIALIEN GEM GMBH (DE)

Author (Inventor): GITTINGER ANDREAS DR (DE); JOACHIMI DETLEV DR  
(DE); IDEL KARSTEN-JOSEF DR (DE); ZABY GOTTFRIED DR (DE); NONNINGER  
RALPH DR (DE); NASS RUEDIGER DR (DE); SCHMIDT HELMUT DR (DE)

Priority (No,Kind,Date): DE 19621308 A 19960528

Applic (No,Kind,Date): EP 97108006 A 19970516

Designated States: (National) BE; DE; ES; FR; GB; IT; NL

IPC: \* C08K-003/22; C08J-005/18

CA Abstract No: \* 128(05)048994R; 128(05)048994R

Derwent WPI Acc No: \* C 98-011035; C 98-011035

Language of Document: German

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☐ 1. 4/34/1 (Item 1 from file: 351)

011593908

WPI ACC No: 1998-011036/ 199802

Polyamide films or hollow articles used for e.g. food,  
cosmetic or chemical packaging or motor vehicle fuel tanks - contain  
finely dispersed fluoro mica filler

Patent Assignee: BAYER AG (FARB )

Inventor: GITTINGER A; IDEL K; JOACHIMI D; ZABY G; JOACHIM D

Number of Countries: 012 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 810260	A1	19971203	EP 97107911	A	19970515	199802 B
DE 19621309	A1	19971204	DE 1021309	A	19960528	199803
CA 2205974	A	19971128	CA 2205974	A	19970523	199823
JP 10081767	A	19980331	JP 97147029	A	19970522	199823
KR 97074829	A	19971210	KR 9721046	A	19970527	199848

Priority Applications (No Type Date): DE 1021309 A 19960528

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 810260	A1	G	6	C08K-003/34	

Designated States (Regional): BE DE DK ES FI FR GB IT NL

DE 19621309 A1 5 C08L-077/00

JP 10081767 A 5 C08J-005/18

CA 2205974 A C08K-007/10

KR 97074829 A C08J-005/00

Abstract (Basic): EP 810260 A

Single- or multi-layer film, or hollow article contain at least one  
polyamide layer containing finely dispersed fluoro mica.

Preferably the polyamide layer contains 0.1-10 (1-3) wt.% fluoro  
mica with an average particle size at most 1  $\mu$ m, ( at most 50 nm).  
Fluoro mica of formula  $x(\text{MF}) \cdot y(\text{aMgF}_2 \cdot \text{bMgO}) \cdot z\text{SiO}_2$  (I) is used. In (I), M  
= alkali metal; a, b = 0-1, with the provision that (a + b) = 1; x =  
0.1-2; y = 2-3.5; and z = 3-4.

USE - The films and hollow articles are used as packaging for food  
(eg. meat (products), sausage, cheese or drinks), cosmetics (eg. sun  
protection cream) or chemicals (eg. pesticides). The hollow articles  
can also be pipes or tanks for eg. motor car fuel or oil (claimed).

ADVANTAGE - Oxygen barrier properties of polyamide are improved  
without an adverse effect on transparency, reflection or toughness.

Dwg.0/0

Derwent Class: A23; A92; E33; P73; Q32; Q34

International Patent Class (Main): C08J-005/00; C08J-005/18; C08K-003/34;  
C08K-007/10; C08L-077/00

International Patent Class (Additional): B29D-007/01; B32B-027/20;

B32B-027/34; B65D-001/09; B65D-065/40; C08K-003/16

□ 2.

4/34/2 (Item 2 from file: 345)

13950571

Basic Patent (No,Kind,Date): CA 2205974 AA 971128

## PATENT FAMILY:

## CANADA (CA)

Patent (No,Kind,Date): CA 2205974 AA 971128

FILMS OR HOLLOW ARTICLES CONTAINING A POLYAMIDE LAYER (English; French)

Patent Assignee: BAYER AG (DE)

Author (Inventor): IDEL KARSTEN-JOSEF (DE); ZABY GOTTFRIED (DE);-  
JOACHIMI DETLEV (DE); GITTINGER ANDREAS (DE)

Priority (No,Kind,Date): DE 19621309 A 960528

Applic (No,Kind,Date): CA 2205974 A 970523

IPC: \* C08K-007/10; B32B-027/20

CA Abstract No: \* 128(05)048995S

Derwent WPI Acc No: \* C 98-011036

Language of Document: English

## GERMANY (DE)

Patent (No,Kind,Date): DE 19621309 A1 971204

FOLIEN ODER HOHLKOERPER ENTHALTEND EINE POLYAMIDSCHICHT (German)

Patent Assignee: BAYER AG (DE)

Author (Inventor): GITTINGER ANDREAS DR (DE); JOACHIMI DETLEV DR  
(DE); IDEL KARSTEN DR (DE); ZABY GOTTFRIED DR (DE)

Priority (No,Kind,Date): DE 19621309 A 960528

Applic (No,Kind,Date): DE 19621309 A 960528

IPC: \* C08L-077/00; C08K-003/16; C08J-005/00; C08J-005/18; B32B-027/34  
; B29D-007/01; C08K-003/34; C08L-077/02; B65D-065/38

CA Abstract No: \* 128(05)048995S

Derwent WPI Acc No: \* C 98-011036

Language of Document: German

## EUROPEAN PATENT OFFICE (EP)

Patent (No,Kind,Date): EP 810260 A1 971203

FILMS OR HOLLOW ARTICLES CONTAINING A POLYAMIDE LAYER (English; French;  
German)

Patent Assignee: BAYER AG (DE)

Author (Inventor): GITTINGER ANDREAS DR (DE); JOACHIM DETLEV DR (DE)  
; IDEL KARSTEN-JOSEF DR (DE); ZABY GOTTFRIED DR (DE)

Priority (No,Kind,Date): DE 19621309 A 960528

Applic (No,Kind,Date): EP 97107911 A 970515

Designated States: (National) BE; DE; DK; ES; FI; FR; GB; IT; NL

IPC: \* C08K-003/34; C08J-005/18

CA Abstract No: \* 128(05)048995S; 128(05)048995S

Derwent WPI Acc No: \* C 98-011036; C 98-011036

Language of Document: German

## JAPAN (JP)

Patent (No,Kind,Date): JP 10081767 A2 980331

FILM OR BLOW MOLDING PRODUCT CONTAINING POLYAMIDE LAYER (English)

Patent Assignee: BAYER AG

Author (Inventor): GITTINGER ANDREAS DR; JOACHIMI DETLEV DR; IDEL  
KARSTEN DR; ZABY GOTTFRIED DR

Priority (No,Kind,Date): DE 19621309 A 960528

Applic (No,Kind,Date): JP 97147029 A 970522

IPC: \* C08J-005/18; B32B-027/34; B65D-001/09; B65D-065/40; C08K-003/34  
; C08L-077/00

CA Abstract No: \* 128(05)048995S

Derwent WPI Acc No: \* C 98-011036

Language of Document: Japanese

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